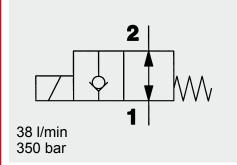
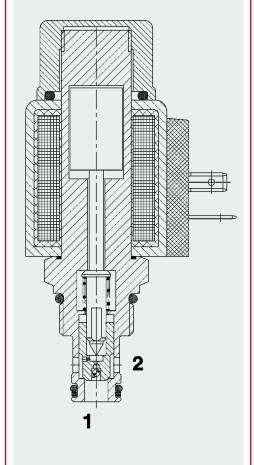
## INTERNATIONAL



# 2/2 Solenoid Directional Valve UNE Poppet Type, Pilot-Operated Normally Open (Reverse Flow) SAE-08 Cartridge – 350 bar

WS08YR-01

#### **FUNCTION**



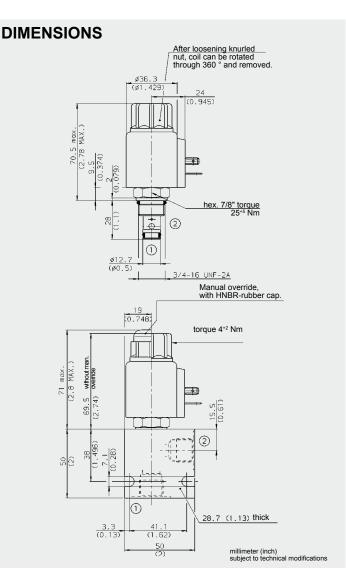
When the solenoid coil is not energized, the valve is open in both directions. When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction from port 1 to 2 there is free flow through the valve when the pressure force on the piston exceeds the solenoid force (approx. 9 to 20 bar).

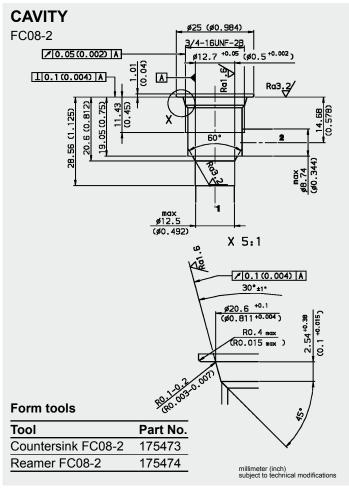
#### **FEATURES**

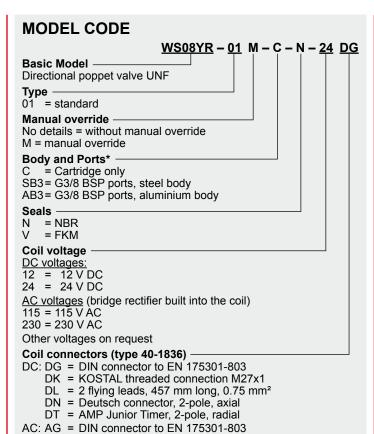
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

#### **SPECIFICATIONS**

Operating pressure:	max. 350 bar		
Nominal flow:	max. 38 l/min		
Leakage:	leakage-free		
		,25 cm³/min at 350 bar)	
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temp. range:	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Materials:	Valve body:	free-cutting steel	
	Piston:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up rings:	PTFE	
	Coil:	Steel/Polyamide	
Cavity:	FC08-2		
Weight:	Valve complete	0.33 kg	
	Coil only	0.19 kg	
Electrical data:			
Switching time:	Energized:	approx. 50 ms	
	De-energized:	approx. 35 ms	
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil		
Current draw at 20 °C:	1.5 A at 12 V DC		
	0.8 A at 24 V DC		
Voltage tolerance:	± 15% of the nominal voltage		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Coil type:	Coil40-1836		







#### Standard models

Model code	Part No.
WS08YR-01-C-N-24DG	562805
WS08YR-01-C-N-230AG	3043387
Other models on request	

#### \* Standard in-line bodies

Other connectors on request

Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	350 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8	210 bar
Other beusing	a an reguest			

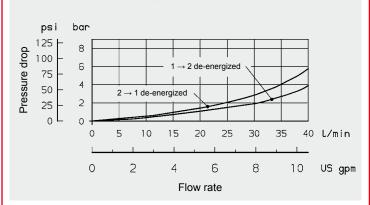
Other housings on request

#### Seal kits

Code	Material	Part No.
FH082-N SEAL KIT	NBR	3033920
FH082-V SEAL KIT	FKM	3051756

### PERFORMANCE

Measured at  $v = 34 \text{ mm}^2/\text{s}$ ,  $T_{oil} = 46 ^{\circ}\text{C}$ 



NOTE
The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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